CADILLAC ELR

SPECIFICATIONS

PRICE
AS TESTED $82,135
BASE $75,995
VEHICLE TYPE: front-engine, front-wheel-drive, 4-passenger, 2-door coupe
OPTIONS: Kona Brown full-leather seats, $2450; adaptive cruise control, $1995; Luxury package, $1695
STANDARD: power windows, seats, and locks; remote locking; cruise control; tilting and telescoping steering wheel
AUDIO SYSTEM: satellite radio; minijack, USB, media-card, and Bluetooth-audio inputs; 10 speakers

MOTOR/GENERATOR 1
AC permanent-magnet synchronous
REDLINE ..... 9000 rpm
POWER ..... 181 hp @ 5000 rpm
TORQUE ..... 295 lb-ft @ 0 rpm

ENGINE
inline-4, iron block and aluminum head
BORE X STROKE ... 2.89 x 3.25 in, 73.4 x 82.6 mm
DISPLACEMENT ..... 85 cu in, 1398 cc
COMPRESSION RATIO 10.5:1
FUEL DELIVERY SYSTEM ..... port injection
VALVE GEAR: double overhead cams, 4 valves per cylinder, hydraulic lifters, variable intake- and exhaust-valve timing
REDLINE ..... 4800 rpm
POWER ..... 86 hp @ 4800 rpm
TORQUE ..... 94 lb-ft @ 4250 rpm

MOTOR/GENERATOR 2
AC permanent-magnet synchronous
REDLINE ..... 6000 rpm
POWER ..... 74 hp @ 3800 rpm
TORQUE ..... 136 lb-ft @ 0 rpm
COMBINED POWER RATING ..... 217 hp
COMBINED TORQUE RATING ..... 295 lb-ft

BATTERY PACK
lithium-ion, liquid-cooled
CELL COUNT/CONSTRUCTION 288/prismatic
MANUFACTURER ..... LG Chem, GM
CAPACITY ..... 16.5 kWh

DRIVETRAIN
TRANSMISSION ..... automatic with fixed- and variable-ratio modes
FINAL-DRIVE RATIO 2.16:1

CHASSIS
unit construction with a rubber-isolated front subframe
BODY MATERIAL: steel and aluminum stampings

STEERING
rack-and-pinion with variable electric power assist
RATIO 15.4:1
TURNS LOCK-TO-LOCK 2.5
TURNING CIRCLE CURB-TO-CURB ..... 38.4 ft

SUSPENSION
F: ind, strut located by a control arm, coil springs, anti-roll bar
R: ind, trailing arm integral with a transverse member, transverse Watt's linkage, coil springs

EXTERIOR DIMENSIONS
WHEELBASE ..... 106.1 in
LENGTH ..... 186.0 in
WIDTH ..... 72.7 in
HEIGHT ..... 55.9 in
FRONT TRACK ..... 62.1 in
REAR TRACK ..... 62.4 in
GROUND CLEARANCE ..... 4.3 in

INTERIOR DIMENSIONS
SAE VOLUME ..... **F:** 50 cu ft **R:** 34 cu ft
TRUNK ..... 9 cu ft

BRAKES
F: 12.6 x 1.2-in vented disc
R: 12.0 x 0.5-in disc
STABILITY CONTROL ..... fully defeatable, traction off

WHEELS AND TIRES
WHEEL SIZE/CONSTRUCTION ..... 8.5 x 20 in/cast aluminum
TIRES ..... Bridgestone Potenza RE97AS 245/40R-20 95H M+S

★ **NOTABLE HIGHLIGHTS** *GM's HiPer strut adds significant unsprung mass, but its crafty design reduces the tire's scrub radius and the suspension's spindle length—two contributors to torque steer—in the quest for better handling.*

CAR AND DRIVER *TEST RESULTS*

ACCELERATION

ZERO TO	EV MODE/EXTENDED-RANGE MODE SECONDS
30 MPH	3.4/3.4
40 MPH	4.9/4.7
50 MPH	6.7/6.2
60 MPH	**9.0/8.1**
70 MPH	11.9/10.5
80 MPH	15.4/13.5
90 MPH	20.1/17.5
100 MPH	**26.9/24.0**
ROLLING START, 5-60 MPH	8.8/7.8
TOP GEAR, 30-50 MPH	3.4/2.9
TOP GEAR, 50-70 MPH	5.2/4.3
1/4-MILE	**17.0 sec @ 84 mph/ 16.5 sec @ 87 mph**
TOP SPEED *(GOVERNOR LTD)*	107 mph

TEST NOTES: *Feels seat-of-the-pants quicker in extended-range mode, when it's basically operating as a series hybrid. When the battery is low, the engine hums along until there is enough charge to maintain performance.*

HANDLING

ROADHOLDING, 300-FT-DIA SKIDPAD ..... **0.84 g**
UNDERSTEER ..... MODERATE

TEST NOTES: *We learned on the road that the ELR willingly accepts aggressive steering inputs. This translates to very controllable behavior on the skidpad. Tires howl as the limit nears.*

BRAKING, 70-TO-ZERO MPH

FIRST STOP ..... 172 ft
SHORTEST STOP ..... **173 ft**
LONGEST STOP ..... 175 ft
FADE RATING ..... NONE

TEST NOTES: *With the exception of zero pedal feedback, the brakes work without flaw and our six test stops are separated by three feet. A digital readout in the dash says braking can generate up to 60 kW when used in conjunction with the Regen on Demand feature.*

WEIGHT

CURB ..... 4054 lb
PER HORSEPOWER ..... 18.7 lb
DISTRIBUTION ..... **F:** 61.1% **R:** 38.9%
CENTER-OF-GRAVITY HEIGHT ..... 21.0 in
TOWING CAPACITY ..... 0 lb

FUEL

CAPACITY ..... 9.3 gal
OCTANE ..... 91 (required)
EPA CITY/HWY ..... 32/38* mpg
EPA ELECTRICITY COMBINED ..... 90* MPGe
C/D OBSERVED ..... **37 MPGe**

INTERIOR SOUND LEVEL

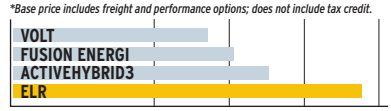
IDLE ..... 29 dBA
FULL THROTTLE ..... 74 dBA
70-MPH CRUISING ..... 71 dBA

tested by K.C. COLWELL in Chelsea, Michigan

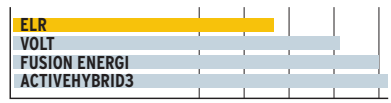
COMPETITORS

BMW ACTIVEHYBRID3
(3.0-L I-6 + AC MOTOR, 335 HP, 8-SP AUTO)
CADILLAC ELR *(AC MOTORS + 1.4-L I-4, 217 HP, AUTO)*
CHEVROLET VOLT *(AC MOTORS + 1.4-L I-4, 149 HP, AUTO)*
FORD FUSION ENERGI TITANIUM
(2.0-L I-4 + AC MOTOR, 188 HP, CVT)

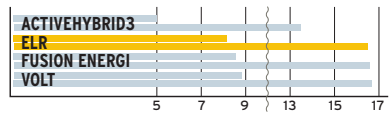
CURRENT BASE PRICE* *dollars x 1000*
*Base price includes freight and performance options; does not include tax credit.



70-0 BRAKING *feet*



ACCELERATION *0-60 & 1/4-mile, seconds*



ROADHOLDING *200- or 300-foot skidpad, g*

Shell V-Power Premium Gasoline
The Official Fuel Partner of CAR AND DRIVER

*C/D estimated.